Index to Volume 145

Author Index

Albritton, W., 103
Alenius, S., 569
Alford, C. A., Jr., 647, 829
Allen, W. P., 413
Alter, M. J., 886
Amendoeira, M. R. R., 587
American Red Cross Alanine Aminotransferase Study Group, 383
Amiel, C., 786
Amit, P., 667
Amsel, R., 337
Andiman, W. A., 83
Andremont, A., 248
Andrews, C., 276
Andrews, J. S., Jr., 89
Anthony, B. F., 789
Apicella, M. A., 206
Armerding, D., 320
Armstrong, D., 126
Aronoff, G. R., 365
Auzepy, P., 248
Baer, G. M., 715
Baker, D. A., 282
Bale, J. F., Jr., 525
Band, J. D., 9, 919
Baron, S., 811
Barrett, T. J., 894
Barrios, H., 331
Bartlett, J. G., 561
Barza, M., 899
Battaglia, M., 678
Baum, J., 899
Beck, D., 27
Becker, S., 483
Beisel, W. R., 706
Belshe, R. B., 311
Bennett, W. M., 129, 370
Berg, M., 569
Berman, J. D., 279
Bernstein, J. B., 804
Bertolini, M. C., 148
Bettoli, E. J., 399
Bia, F. J., 742
Black, R. E., 296, 465, 483
Blair, R., 400
Blake, P. A., 131
Blanco, J. D., 1
Blejer, J. L., 331
Bloch, E. H., 358
Bloom, K., 542
Bodey, G. P., 127
Boisjoly, H. M., 909
Bolivar, R., 586
Bolognese, R., 537
Bourbeau, P., 916
Bourgault, A. M., 103
Boxer, L. A., 771
Bradley, E. H., 854
Brandriss, M. W., 277
Braude, A. I., 623
Bregman, D. A., 875
Brewer, P. M., 399
Briem, H., 346
Broberg, F., 569
Brockes, J. P., 94
Brooks, G. F., 37
Brown, A. E., 126
Brown, K. H., 483
Brown, M. L., 582
Brown, P., 683
Browning, M. C., 174
Buchanan, T. M., 300
Burman, L. G., 822
Butler, R., 242
Butler, T., 358
Calisher, C. H., 283
Calubiran, O. V., 583
Campos, J. M., 916
Carbon, C., 278
Carney, W., 191
Carrao, W. M., 234
Castaneda, Y. S., 1
Cats, B. P., 800
Cattaneo, E., 678
Cavanaugh, D. C., 768
Cerisier, Y., 292
Chaicumpa, W., 863
Champsaur, H., 248
Chan, L., 65
Chantler, J. K., 673
Charette, R. P., 837
Charlesworth, J. A., 505
Checko, P., 262
Chen, K. C. S., 337
Chmel, H., 585
Cisneros, L., 296
Clements, M. L., 296, 465
Clifford, D. P., 870
Cohen, M. S., 771
Cohen, R. L., 550
Cohen, S., 374
Collaborative Antiviral Study Group, 829
Collie, M. H., 520
Cook, E. H., 854
Corey, L., 422
Correa-Villasenor, A., 275
Corwin, R. W., 772
Couch, R. B., 542
Coutinho, S. G., 587
Craft, J. C., 495, 499
Craig, J. P., 296, 465
Craven, P. C., 748
Crawford, D. J., 706
Crisologo, L. B., 583
Critchlow, C., 300
Cumella, J., 804
Dann, P. R., 904
Dans, P. E., 422
Dasco, C. C., 542
Davies, S. F., 870
Davis, A. E., 126
Davis, J. P., 431, 441, 449
De Clercq, E., 130, 909
Deinhardt, F., 886
Delafuente, J. C., 397
De Lucca, F. S., 148
Demers, G. W., 490
Dillon, H. C., Jr., 794
Dimitracopoulos, G., 78
Dodd, R. Y., 383
Donahue, D. M., 45
Donald, P. R., 287
Douglas, R. G., Jr., 277
Dowell, V. R., Jr., 269
DuPont, H. L., 582
Dykman, J. H., 287
Dzink, J., 561
Echeverria, P. D., 131, 863
Edwards, I. R., 773
Edwards, J. E., Jr., 593
Edwards, K. M., 65
Edwards, M. L., 733
Eickhoff, T. C., 407
Eklind, K., 569
Eley, A., 110
Elliott, W. C., 129, 370
Endre, Z. H., 505
Eng, R. H. K., 585
Engleberg, N. C., 894
Erben, J. J., 255
Erickson, A. D., 234
Eschenbach, D. A., 337
Fainstein, V., 127, 586, 915
Falkow, S., 863
Farrugia, R., 772
Fauci, A. S., 602
Feder, H. M., Jr., 280
Fekadu, M., 715
Fekety, R., 269
Feldman, R. A., 894
Finland, M., 401
Fishaut, J. M., 654, 661
Fleisher, G. R., 537
Flesher, A. R., 224

Fong, C. K. Y., 742
Forfang, J. C., 431, 458
Francis, D. P., 255, 262
Fraser, D. W., 9, 919
Fravert, D., 174
Fredericka, D. N., 918
Freter, R. G., 428
Friman, G., 706
Frösner, G., 886
Gajdusek, D. C., 683
Galassi, N. V., 331
Galasso, G. J., 774
Garagusi, V. F., 269
Garrity, F. L., 234
Gary, G. W., Jr., 894
Gerards, L. J., 800
Gerber, A. U., 554
Gerety, R. J., 886
Germanier, R., 292
Gerna, G., 678
Gewurz, H., 65
Ghazzouli, I., 320
Gibbs, R. S., 1
Gibert, C., 278
Gibson, R. W., 441
Gilbert, D. N., 129, 370
Gill, D. M., 296
Glasgow, L. A., 525, 774*
Gocke, D. J., 18
Godel, J. C., 547
Goldblum, S. E., 396
Goldman, R. S., 396
Good, R. C., 9, 919
Goodrich, J. M., 733
Gootz, T. D., 118
Gorbach, S. L., 72
Granoff, D. M., 181
Gravelle, C. R., 854
Gray, B. M., 794
Gray, E., 794
Graybill, J. R., 748
Green, E. M., 683
Green, J. A., 837
Green, M. S., 667
Greenberg, H. B., 483
Greenberg, S. B., 542
Greenwood, D., 110
Griffiths, P. D., 647
Gross, P. A., 126
Grubbs, B., 200
Guinan, M. E., 399
Guiot, H. F. L., 429
Guptill, D. R., 770
Guze, L. B., 169
Guze, P. A., 169
Gwaltney, J. M., Jr., 849
Haas, J. E., 152
Hadler, S. C., 255
Hagihara, B., 859
Haley, R. W., 875
Halpin, T. J., 275
Hankins, W., 914
Harding, G. K. M., 103
Harmon, M. W., 542
Harper, A. A., 94
Hatheway, C. L., 783
Hayes, P. S., 9, 919
Helms, C. M., 431, 441
Henderson, D., 593
Hendley, J. O., 849, 914
Hewlett, E. L., 89
Hillyer, G. V., 728
Hirsch, M., 191, 276
Hoidal, J. S., 870
Holburt, E. N., 894
Holck, S. E., 131
Holm, S. E., 822
Holmes, K. K., 337
Holtzhauer, F. J., 275
Hoogkamp-Korstanje, J. A. A., 800
Hopfer, R. L., 127, 915
Houghton, D. C., 370
Howie, V., 811
Hsiung, G. D., 742, 904
Hsu, C.-Y., 174, 574
Hughes, J. M., 269, 894
Hughes, W. T., 767, 842
Hultman, E. H., 346
Husseini, R. H., 520
Ilbäck, N.-G., 706
Ioannidis, C., 78
Irwin, R. S., 234, 772
Jacobs, R. F., 152
Jaffe, H. W., 374
James, J. F., 37
Jennings, H. J., 224
Johnson, P. E., 542
Johnson, R. C., 358
Joiner, K., 561
Jones, D. A., 773
Jordan, M. C., 699
Judy, L. A., 441
Kabins, S. A., 374
Kaemmerlen, J. T., 234
Kalin, M. E., 346
Kalmanson, G. M., 169
Kane, A., 899
Kane, M. A., 262
Kapikian, A. Z., 483
Kaplan, J. E., 283
Kappus, K. D., 283
Karaulnik, M., 131
Kasper, D. L., 72, 224
Kellick, M. G., 126
Kelsall, D., 191
Kennedy, J., 9, 919
Kennedy, M., 398
Kern, E. R., 525
Klempner, M. S., 72
Kleyn, K., 811
Klimek, J. J., 815
Kluge, R. M., 397
Knoop, F. C., 141
Knox, S. R., 422
Kohlhepp, S. J., 129
Kohnen, P. W., 129
Kosunen, T. U., 128, 919
Kotelewetz, E., 103
Krause, P. J., 815
Kryger, P., 23
Kudlac, H., 773
Lambert, P.-H., 635
Lambris, J., 78
Lammel, C. J., 37
LaMont, J. T., 398
Langmuir, A. D., 588
Lawrence, B., 811
Laxton, J. G., 152
Lebek, G., 554
Lee, R. V., 422
Lehmann, W. B., 815
Letarte, R., 753
Levesque, R., 753
Levine, H. G., 398
Levine, M. M., 296, 465
Lew, M. A., 45
Lewis, J. H., 18
Liehl, E., 320
Lim, Y. L., 465
Lindborg, B., 569
Linneman, C. C., Jr., 532
Lint, T. F., 65
Losonsky, G. A., 654, 661
Lowe, B., 561
Lowe, P., 27
Lucia, H. L., 742, 904
Luft, F. C., 365
Lugowski, C., 224
Luna, M., 586
Lundbergh, P. R., 346
Maassab, H. F., 57
Mackowiak, P. A., 550
Magee, W. E., 748
Mahmoud, A. A. F., 613
Maiorca, F., 45
Makornkawkeyoon, S., 720
Malan, C., 287
Mandel, J. S., 441
Mannucci, P. M., 18
Manuel, C., 786
Marling-Cason, M., 550
Martin, R. R., 118
Matanoski, G. M., 886
Mathiesen, L., 23
Mathieu, D., 248
Matsuyama, T., 859
Mavligit, G., 586
Maynard, J. E., 255, 262, 854

*Deceased.

McDonel, J., 490
Mercer, E., 242
Merigan, T. C., 191
Mertz, G. J., 720
Meulemans, A., 786
Miller, D. R., 126
Miller, F. D., 57
Miller, G., 83
Mills, K., 127
Minnich, L. L., 27
Moellering, R. C., 118
Monath, T. P., 283
Montgomerie, J. Z., 593, 917
Monto, A. S., 57
Morello, C., 18
Morris, J. G., Jr., 131
Morse, S. A., 206
Moseley, S. L., 863
Moynihan, M., 94
Mufson, M. A., 311
Muller, D., 733
Mulvihill, S., 917
Munson, R. S., Jr., 181
Murakami, T., 859
Murphy, B. L., 262
Myers, J. P., 532
Myers, J. R., 234
Myers, M. W., 774
Nahmias, A. J., 829
Nalin, D. R., 296
Naot, Y., 770
Naraqi, S., 281
Nathan, C., 374
Nejamkis, M. R., 331
Nelson, J. D., 499
Nelson, K. E., 720
Nelson, R., 191
Nicolle, L. E., 103
Nielsen, J. O., 23
Nightingale, C. H., 815
Noble, R. C., 422
Nota, N. R., 331
Nunez-Montiel, O., 269
Nydegger, U. E., 635
Öberg, B., 569
Ogra, P. L., 654, 661, 804
Olsen, D., 300
Osterholm, M. T., 431, 441, 458
Ostroy, P. R., 9, 919
Overall, J. C., Jr., 525
Owens, N. J., 815
Oxtoby, M. J., 399
Papamichail, M., 78
Pappenheimer, A. M., Jr., 94
Park, N.-H., 909
Parker, C., 804
Parker, C. D., 474
Parker, R. A., 370
Parsons, S., 242
Pass, M. A., 793
Pass, R. F., 647
Pasternack, M., 766
Paucker, K., 811*
Pavan-Langston, D., 909
Payne, C. M., 27
Pazzaglia, G., 766
Peacock, J. E., 771
Peake, P. W., 505
Pechère, J.-C., 753
Pedersen, N. S., 23
Perkins, R. L., 118, 422
Perry, E. V., 915
Peskuric, T., 811
Peterson, N. J., 9, 919
Pettersson, T., 128, 919
Peyretti, F., 18
Phair, J. P., 351
Picco, B., 242
Pier, G. B., 217
Pierce, P. F., Jr., 269
Pitkänen, T., 128, 919
Pockros, P. J., 592
Pollack, A., 733
Pollack, M., 688
Pollard, R. B., 811
Pönkä, A., 128, 919
Postl, B., 103
Pratter, M. R., 234, 772
Preiksaitis, J., 191
Prescott, R. K., 688
Prime, D. J., 574
Pronovost, A. D., 904
Pussell, B. A., 505
Quarles, J., 542
Quintiliani, R., 815
Raiser, M., 281
Rapp, F., 413
Rasmussen, L., 191
Ratnam, S., 242
Ray, C. G., 27
Reed, W. P., 396
Reingold, A. L., 262
Reller, L. B., 160
Remillard, F., 103
Remington, J. S., 770
Repine, J. E., 870
Revello, M. G., 678
Rifkin, G. D., 269
Rigau-Pérez, J. G., 783
Rios, A., 586
Ristaino, P., 296
Rizzetto, M., 18
Roberts, L., 768
Robins-Browne, R. M., 465
Robinson, D. M., 768
Robinson, W. S., 387
Rohwer, R. G., 683
Roland, F. P., 769

* Deceased.

Ronald, A., 103
Rondeau, J., 431, 441
Rosanoff, E. I., 720
Ross, D. W., 771
Rossiter, H., 320
Rottman, E., 248
Roy, P. H., 753
Rubin, R., 276
Rubinstein, E., 667
Ruffier, J., 89
Saah, A., 296
Sakuldaipeara, T., 863
Sallam, S., 292
Sampliner, R. E., 886
Sanders, C. C., 118
Sanders, W. E., Jr., 118
Santoro, C., 358
Sather, G. E., 283
Scaroni, C., 18
Schachter, J., 200
Schaefer, F. W., III, 89
Schell, W. L., 441
Schlesinger, J. J., 277
Schneider, D. R., 474
Schonberger, L. B., 283
Sérié, C., 292
Seriwatana, J., 863
Serrano, A. E., 728
Shaddock, J. H., 715
Shah, K. V., 276
Sheagren, J. N., 428
Shenep, J. L., 181
Sherman, K. E., 383
Shiraishi, S., 859
Siber, G. R., 45
Siegel, M., 300
Silberman, H., 592
Silcox, V. A., 9, 919
Silva, J., Jr., 269
Simon, G. L., 72
Sinkovics, J. G., 135
Slavin, R. G., 397
Sloan, R. S., 365
Smallwood, L. A., 886
Smith, A. L., 152
Smith, B., 767
Smith, C. B., 837
Smith, D. W., 733
Smith, H., 520
Smith, R. J., 647
Snowman, W. R., 275
Sokalski, S. J., 65
Spagnuolo, P. J., 358
Spero, J. A., 18
Stagno, S., 647
St. Clair, P. J., 1
Steinherz, P. G., 126
Sterkers, O., 786
Stettler-Spichiger, U., 554
Stevens, J. G., 699

Stratton, C. W., 160
Strike, D. G., 118
Strussenberg, J., 654, 661
Sullivan, P. S., 582
Sumaya, C. V., 200
Sweeney, H. M., 374
Sweet, C., 520
Sykes, R. B., 762
Tabor, G., 886
Takagi, J. L., 699
Takei, Y., 829
Tarsio, M., 742
Taylor, R. L., 748
Teplitz, C., 772
Thomas, D. D., 141
Thomas, D. M., 217
Thore, M., 822
Tingle, A. J., 673
Tint, H., 720
Tirapat, C., 863
Torres, C. A., 583
Tracy, J. W., 358
Tran Ba Huy, P., 786
Tremolieres, F., 278
Trujillo, M. J., 894
Tune, B. M., 174, 574
Tupasi, T. E., 583
Turner, R. B., 849, 914
Ulrich, J. A., 396
Valentín, V., 783
van der Meer, J. W. M., 429
van Furth, R., 429
Van Thiel, D. H., 18
Van Voris, L. P., 311
Van Wyck, D. B., 514
Vaucher, Y. E., 27
Vaudaux, P., 635
Venezio, F. R., 351
Vergeront, J. M., 431, 441, 449
Visintine, A. N., 829
Vithayasai, V., 720
Waddell, A., 584
Wahdan, M. H., 292
Waldman, R. H., 397
Waldvogel, F. A., 635
Wang, P. L., 574
Ward, J. J., 9, 919
Webster, H. M., 255
Weinstein, M. P., 160
Weinstein, R. A., 374
West, G. R., 131
Westenfelder, G. O., 351
Whitley, R. J., 829
Wiktor, T. J., 720
Williams, D. M., 200, 748
Wilson, C. B., 152
Wilson, K. H., 428
Wilson, R., 269
Wilson, S. Z., 542
Winston, D., 191
Wintermeyer, L. A., 431, 441
Wiprächtiger, P., 554
Wisseman, C. L., Jr., 584
Witte, C. L., 514
Witte, M. H., 514
Wolff, M., 585
Wolff, S. M., 595
Woodward, T. E., 289
Woodward, W. E., 289
Yamanaka, T., 804
Yasmeen, D., 505
Yeh, T.-J., 837
Yeni, P., 278
Young, C. R., 296, 465
Young, L. S., 407
Zaidi, A. A., 399
Zhang, Z.-H., 130
Ziegler, J. E., 733
Zini, M. C., 148
Zurlinden, E., 37
Zwahlen, A., 635

Subject Index

Achromobacter species, plasmid-mediated cephalosporinase, 753
Acidic food, associated with botulism, 783
Acyclovir
  effect on genital herpes in guinea pigs, 904
  therapeutic effects on cutaneous infection due to herpes simplex virus type 1 in guinea pigs, 569
Adenovirus, types 5 and 6, in lymphoid cells from humans and woolly monkeys, 83
Adenoviruses, human, grouping by early antigen reactivity, 678
Adherence, to nylon, of polymorphonuclear leukocytes from patients with sepsis, 351
Aeromonas sobria, isolated from a patient with a cholera-like illness, 248
Alanine aminotransferase, levels among volunteer blood donors, 383
Amino acids, increased total concentration in the cerebrospinal fluid of patients with purulent meningitis, 346
Aminoglycosides
  change in serum pH in bioassay, 585
  gentamicin, effects of constant infusions vs. intermittent doses against *P. aeruginosa*, 554
Amniotic fluid, from women with clinical intraamniotic infection at term, quantitative bacteriology, 1
Amoxicillin, penetration into the middle ear fluid of patients with chronic serous otitis media, 815
Amphotericin B, liposome-associated, treatment of murine cryptococcosis, 748
Ampicillin
  cellular uptake and intracellular activity against *H. influenzae* type b, 152
  specific antibody and delayed hypersensitivity skin tests in patients with mononucleosis, 397
Anaerobic bacteria
  cultivation of *B. fragilis* in tissue culture, 859
  three species, in experimental otitis media in guinea pigs, 822
Anorectal and vaginal carriage of group B streptococci during pregnancy, 794
Antibiotic, tolerance, in treatment of pyelonephritis due to *S. aureus* in rats, 169
Antibiotics
  cephalosporins, effects of ureteral obstruction on toxicity in the rabbit kidney, 574
  change in serum pH bioassay of aminoglycosides, 585
  current susceptibility of group A β-hemolytic streptococci, 916
  epidemiologic investigation of cases of associated colitis, 269
  β-lactam
    classification of enzymes that hydrolyze, 762
    turbidimetric study of response of *P. aeruginosa*, 110
  penetration into the middle ear fluid of patients with chronic serous otitis media, 815
  treatment of uncomplicated gonococcal infections in women, 583
Antibodies
  IgM, to *T. gondii*, duration after acute acquired toxoplasmosis, 770
  specific IgM, as markers of recent primary infection with cytomegalovirus, 647
  virus-specific IgG and IgM, in normal and immunocompromised subjects infected with cytomegalovirus, 191
Antibody
  ampicillin-specific, and delayed hypersensitivity skin tests in patients with mononucleosis, 397
  response
    to a gonococcal pili vaccine in humans and function in vitro, 300
    to human diploid cell vaccine for rabies, 720
    to lipopolysaccharide after meningitis due to *H. influenzae* type B in humans, 181
    to *V. cholerae* in North Americans after ingestion, 465
  to *N. meningitidis*, studies in a patient with complete deficiency of C7, 65
  role in host defense against agent of mouse pneumonitis, 200
  to tetanus toxoid during disease and after specific immunization, 278
Antigen, serogroup 1-specific, isolated from *L. pneumophila*, 224
Antigens
  early, grouping of human adenoviruses by reactivity, 678
  in vitro transfer of reactivity to *T. cruzi* from rat cells to human cells with immune RNA, 148
  tegument, of *F. hepatica*, cross protection from infections due to *S. mansoni*, 728
Antimicrobial activity, effects of temperature on susceptibility of bacteria, 550
Antimicrobial agents
  comparative efficacy in experimental infections with *B. fragilis*, 561
  level correlated with serum bactericidal activity, 160
Antiviral agents, for genital herpesvirus infections, 774
Arbovirus, infections in humans in the United States in 1980, 283
Arctic community, isolated, chemoprophylaxis for *N. meningitidis*, 103
Attenuation marker, for Junin virus based on immunologic responses of guinea pigs, 331
Autoclaving, chemicals, and histopathologic processing, effect on hamster-adapted scrapie virus, 683
Bacille Calmette-Guérin, and *M. avium-intracellulare*, protection from infection with *M. tuberculosis*, 733
Bacteremia
  due to methicillin-resistant *S. aureus*, 532
  due to *H. influenzae* type b, in a 10-year-old girl, 280
Bactericidal activity, in serum, correlated with antimicrobial agent level and minimal bactericidal concentration, 160
Bacteriuria, correlation with tissue infection, 917
Bacteroides asaccharolyticus, in experimental otitis media in guinea pigs, 822
Bacteroides fragilis
  comparative efficacy of 10 antimicrobial agents in experimental infections, 561
  cultivation in tissue culture, 859

opsonophagocytic killing by neutrophils, effect of capsular polysaccharide, 72
Bacteroides oralis, endocarditis and brain abscess, 918
Bacteroides thetaiotaomicron, cultivation in tissue culture, 859
Biochemical diagnosis, of vaginitis, determination of diamines in vaginal fluid, 337
Blood donors, alanine aminotransferase levels, 383
Borrelia hermsii, opsonic requirements for phagocytosis by human polymorphonuclear leukocytes, 358
Botulinic paralysis, from acidic food, 783
Brain abscess, and endocarditis, due to *B. oralis*, 918
Breast milk, immunologic reactivity from immunization against rubella, 654
E-5-(2-Bromovinyl)-2′-deoxyuridine
differential effects on infections with herpes simplex virus type 1 and type 2 in hairless mice, 130
efficacy for orofacial herpes simplex virus type 1 infection in mice, 909
Bronchitis, chronic obstructive, tracheobronchial colonization in cigarette smokers, 234
Calcium inhibitors, effect on intestinal fluid response to heat-stable enterotoxin of *E. coli*, 141
Campylobacter fetus subspecies *jejuni*, effect of erythromycin on fecal excretion, 128, 919
Cancer, immunization against influenza in children, 126
Candida albicans, enhanced detection with an enzyme-linked immunosorbent assay of mannan in antibody-containing serum after heat extraction, 45
Candidiasis, complication of parenteral nutrition, 592
Cefaclor, penetration into the middle ear fluid of patients with chronic serous otitis media, 815
Cefamandole, resistance, emerging clinical problems, 118
Cefazolin, subconjunctival, ocular penetration in rabbits with staphylococcal endophthalmitis, 899
Cefuroxime, treatment of uncomplicated gonococcal infections in women, 583
Cell triggering, and immunoregulation of human B lymphocytes, 602
Cephalosporinase, plasmid-mediated, from *Achromobacter* species, 753
Cephalosporins
effects of ureteral obstruction on toxicity in the rabbit kidney, 574
nephrotoxicity, prevention by other cephalosporins and by penicillins without significant inhibition of renal cortical uptake, 174
Cephalothin, association with granulocytopenia and thrombocytopenia, 281
Cerebrospinal fluid
complement-mediated opsonic activity during bacterial meningitis, 635
diagnostic value of cryptococcal antigen in patients with malignant diseases, 915
increased concentration of amino acids in patients with purulent meningitis, 346
Chediak-Higashi syndrome, automated cytochemical analysis of neutrophils, 771
Chemicals, heat, and histopathologic processing, effect on hamster-adapted scrapie virus, 683
Chemiluminescence, neutrophil, antibody and complement in stimulation by *N. meningitidis* in a patient with complete deficiency of C7, 65
Chemoprophylaxis, for *N. meningitidis* in an isolated Arctic community, 103
Chlamydia trachomatis, role of antibody in host defense, 200
Chloramphenicol, cellular uptake and intracellular activity against *H. influenzae* type b, 152
Cholera
among refugees in Rangsit, Thailand, 131
similar illness due to *A. sobria*, 248
Cigarettes, amount smoked associated with tracheobronchial colonization in patients with chronic obstructive bronchitis, 234
Classification, of enzymes that hydrolyze β-lactam antibiotics, 762
Clostridium botulinum, botulism associated with acidic food, 783
Clostridium difficile, counterimmunoelectrophoresis vs. cytotoxicity for the detection of toxin, 398
Clostridium perfringens, type A, in vivo effects of enterotoxin in rabbit colon, 490
Cold-recombinant vaccine, attenuated, for influenza B virus, 57
Colds, rhinovirus, shedding of infected ciliated epithelial cells, 849
Colitis, pseudomembranous, epidemiologic investigation of antibiotic-associated cases, 269
Colony hybridization, identification of enterotoxigenic *E. coli* using enterotoxin gene probes, 863
Colony opacity, relation to serum killing of *N. gonorrhoeae*, 37
Complement
activation of alternative pathway by glycolipoprotein of *P. aeruginosa*, 78
depletion in serum, synergism with splenectomy in pneumococcemia, 514
possible role in prevention of immune complex-mediated injury during infectious mononucleosis, 505
seventh component, stimulation by *N. meningitidis* of chemiluminescence by neutrophils from a patient with complete deficiency, 65
Complement-mediated opsonic activity, in human cerebrospinal fluid during bacterial meningitis, 635
Counterimmunoelectrophoresis, vs. cytotoxicity assay for the detection of *C. difficile* toxin, 398
Cross protection, from infections due to *S. mansoni* using tegument antigens of *F. hepatica*, 728
Cryptococcal antigen, in cerebrospinal fluid, diagnostic value in patients with malignant diseases, 915
Cryptococcus neoformans
opsonic requirements for uptake by human polymorphonuclear leukocytes and monocytes, 870
treatment of mice with liposome-associated amphotericin B, 748
Cyclosporin A, provocation of infection due to *P. carinii*, 767
Cytochemical analysis, automated, of neutrophils from patients with Chediak-Higashi syndrome, 771
Cytomegalovirus
effect of infection on the susceptibility of mice to intranasal challenge with *E. coli*, 525

interstitial pneumonia, effects of vaccination in guinea pigs, 742
latent murine, activation, pathogenetic role for acute infection, 699
murine, enhanced susceptibility of infected mice to intranasal challenge with *E. coli*, 525
specific IgM antibodies as markers of recent primary infection, 647
virus-specific IgG and IgM antibodies in normal and immunocompromised infected subjects, 191
Cytotoxicity assay, vs. counterimmunoelectrophoresis for detection of *C. difficile* toxin, 398
Cytotoxicity, of diphtheria toxin for various cultured cells, 94
Delta infection, liver disease in hemophilic carriers of hepatitis B surface antigen, 18
Deoxyribonucleic acid, identification of enterotoxigenic *E. coli* by colony hybridization using enterotoxin gene probes, 863
Dialysis, intermittent chronic peritoneal, associated with peritonitis due to an *M. cheloni*-like organism, 9, 919
Diamines, in vaginal fluid, biochemical diagnosis of vaginitis, 337
Diarrhea
cholera-like illness due to *A. sobria*, 248
due to enterotoxigenic *E. coli*, effect of duration of exposure in travelers from the United States to Mexico, 582
due to *Kluyvera* species, 127
nosocomial outbreak due to *Y. enterocolitica*, 242
relation to acquisition of serum antibody to Norwalk virus and rotavirus in children in Bangladesh, 483
due to rotavirus, epidemiology on an Indian reservation, 894
Diphtheria toxin, effect of route of injection on toxicity and determination of cytotoxicity for various cultured cells, 94
Disk diffusion, susceptibility data, treatment of pulmonary infection with *M. chelonei*, 772
Dogs, excretion of rabies virus in saliva, 715
Doxycycline, in vitro sensitivity of *R. rickettsii* to, 584
Early antigens, grouping of human adenoviruses by reactivity, 678
Ecology, of eosinophils in schistosomiasis, 613
Electron microscopy, used in diagnosis of encephalitis due to herpes simplex virus, 829
Encephalitis, due to herpes simplex virus, diagnostic significance of laboratory evaluation, 829
Endocarditis, and brain abscess, due to *B. oralis*, 918
Endolymph, pharmacokinetics of gentamicin in rats as determined by radioimmunoassay, 786
Endophthalmitis, due to *S. aureus*, ocular penetration of subconjunctival antibiotics in rabbits, 899
Enterobacter aerogenes, resistance to cefamandole, 122
Enterobacter cloacae, resistance to cefamandole, 122
Enterotoxin
heat-stable, of *E. coli*, effect of calcium and prostaglandin inhibitors on intestinal fluid response, 141
C. perfringens type A, in vivo effects in rabbit colon, 490
Enterotoxin A, of *P. aeruginosa*, preparation and characterization of toxoid, 688
Environmental isolates, of *V. cholerae* serogroup O1 biotype El Tor from sewage water in Brazil, 296
Enzyme-linked immunosorbent assay
detection of antibody to respiratory syncytial virus, 311
enhanced detection of candida mannan in antibody-containing serum after heat extraction, 45
quantitation of antibody response to vaccination with gonococcal pili, 300
used to measure antitoxin to *V. cholerae* serogroup O1 biotype El Tor, 296
Enzymes, that hydrolyze β-lactam antibiotics, classification, 762
Eosinophils, ecology in schistosomiasis, 613
Epidemiology
alanine aminotransferase levels among volunteer blood donors, 383
antibiotic-associated pseudomembranous colitis, 269
of diarrhea due to rotavirus on an Indian reservation, 894
effects of nosocomial infections on length of hospitalization, 667
findings of the Tri-State Toxic-Shock Syndrome Study, 431
human arboviral infections in the United States in 1980, 283
pneumonia morbidity in U.S. naval personnel during 1970–1979, 766
and resistance plasmids of gentamicin-resistant staphylococci, 374
results of an active-passive surveillance system for toxic-shock syndrome in Minnesota, 458
risk factors for hepatitis A in day-care centers, 255
role of occupation in seropositivity for *L. pneumophila*, 275
role of understaffing and overcrowding in outbreaks of staphylococcal infection in a neonatal special-care unit, 875
serologic testing for Epstein-Barr virus in pregnant women, 537
sporadic non-A, non-B hepatitis in an urban U.S. population, 886
toxic-shock syndrome, 588
transmission of hepatitis B by an oral surgeon, 262
Epithelial cells, infected, ciliated, shedding in rhinovirus colds, 849
Epstein-Barr virus
seroepidemiology in pregnant women, 537
transformed lymphocytes, from humans and woolly monkeys, persistent infection with adenovirus types 5 and 6, 83
Erythromycin, effect on fecal excretion of *C. fetus* subspecies *jejuni*, 128, 919
Erythromycin-sulfisoxazole, penetration into the middle ear fluid of patients with chronic serous otitis media, 815
Escherichia coli
effect of calcium and prostaglandin inhibitors on intestinal fluid response to heat-stable enterotoxin, 141
enhanced susceptibility of mice infected with murine cytomegalovirus to intranasal challenge, 525
enterotoxigenic
effect of duration of exposure on diarrhea in travelers from the United States to Mexico, 582
identification by colony hybridization, 863
resistance to cefamandole, 122
susceptibility of mice to challenge increased by infection with cytomegalovirus, 525
Exercise, strenuous, effects on infection with *F. tularensis* in rats, 706
Fasciola hepatica, cross protection from infections due to *S. mansoni* using tegument antigens, 728
Fecal excretion, of *C. fetus* subspecies *jejuni*, effect of eryth-

romycin, 128, 919
Fever, suppression, effect on nasal viral levels in ferrets infected with influenza viruses, 520
Fistula, vesicouterine, caused by *F. necrophorum*, 282
Foscarnet sodium, therapeutic effects on cutaneous infections due to herpes simplex virus type 1 in guinea pigs, 569
Francisella tularensis, effects of strenuous exercise on infection in rats, 706
Fusobacterium necrophorum, causing vesicouterine fistula, 282
Gaps in therapy for infectious diseases
  conference summary, 407
  historical perspective, 401
Gastrointestinal illness, in neonates, associated with pleomorphic, enveloped, virus-like particles, 27
Gene probes, identification of enterotoxigenic *E. coli* by colony hybridization, 863
Genital herpesvirus infections, summary of a workshop on antiviral agents, 774
Gentamicin
  effects of constant infusions vs. intermittent doses against *P. aeruginosa* in vitro, 554
  nephrotoxicity
    failure of lysine in prevention, 129
    sex-related differences in the susceptibility of rats, 370
  pharmacokinetics in perilymph and endolymph of the rat as determined by radioimmunoassay, 786
  resistant staphylococci, epidemiology and resistance plasmids, 374
Giardia lamblia
  detection in feces by counterimmunoelectrophoresis, 499
  experimental infection of mongrel dogs with cysts and cultured trophozoites, 89
  infection in rats, 495
Glycolipoprotein, extracellular slime, of *P. aeruginosa*, activation of alternative complement pathway, 78
Gonococcus, resistance to infection, 623
Gonorrhea, in women, comparison of treatment with spectinomycin, cefuroxime, thiamphenicol, and penicillin G, 583
Gram-negative bacilli, effects of NaCl on growth on solid media, 769
Granulocytopenia, cephalothin-associated, 281
Haemophilus influenzae type b
  human antibody responses to lipopolysaccharide after meningitis, 181
  occult bacteremia in a 10-year-old girl, 280
  uptake and activity in human polymorphonuclear leukocytes of antibiotics, 152
Heat extraction, of antibody-containing serum for enhanced detection of candida mannan with an enzyme-linked immunosorbent assay, 45
Hemodialysis, nasal and cutaneous *Staphylococcus* species among patients, 396
Hemophilia, delta infection and liver disease in carriers of hepatitis B surface antigen, 18
Hepatitis A virus, risk factors in day-care centers, 255
Hepatitis A and B viruses, increased risk of infection in men with a history of syphilis, relation to sexual contacts, 23
Hepatitis B surface antigen, delta infection and liver disease in hemophilic carriers, 18
Hepatitis B virus, transmission by an oral surgeon, 262
Hepatitis, non-A, non-B
  the enigma, 387
  epidemiology in an urban U.S. population, 886
  experimental, ultrastructural alterations in hepatocytes of chimpanzees, 854
Herpes, genital, vaccines, concept review, 413
Herpes simplex virus
  encephalitis, diagnostic significance of laboratory evaluations, 829
  recovery from lesions, role of temperature and swab materials, 399
  type 1
    efficacy of *E*-5-(2-bromovinyl)-2′-deoxyuridine for orofacial infection in mice, 909
    therapeutic effects of foscarnet sodium and acyclovir on cutaneous infections in guinea pigs, 569
  type 1 and type 2, differential effects of *E*-5-(2-bromovinyl)-2′-deoxyuridine in hairless mice, 130
  type 2, effect of acyclovir on genital infection in guinea pigs, 904
Herpesvirus infections, genital, summary of a workshop on antiviral agents, 774
Histopathologic processing, heat, and chemicals, effect on hamster-adapted scrapie virus, 683
Histopathology, used in diagnosis of encephalitis due to herpes simplex virus, 829
Historical perspective, gaps in therapy for infectious diseases, 401
Hospitalization, effects of nosocomial infections on length of stay, 667
Hospital flora, gentamicin-resistant staphylococci, epidemiology and resistance plasmids, 374
Hybridomas, specific antibody-producing, 135
Immune complex, injury, prevention by complement behavior during infectious mononucleosis, 505
Immune globulin, human rabies, antibody responses to human diploid cell vaccine for rabies with and without, 720
Immunization, against rubella, effect on lactation products
  immunologic reactivity in breast milk, 654
  maternal-neonatal interactions, 661
Immunofluorescence, used in diagnosis of encephalitis due to herpes simplex virus, 829
Immunogenicity, and safety in humans, and antibody function in vitro, of gonococcal pili, 300
Immunology
  elevation of nasal viral levels by suppression of fever in ferrets infected with influenza viruses, 520
  enhanced susceptibility of mice infected with murine cytomegalovirus to intranasal challenge with *E. coli*, 525
  possible role of complement in prevention of immune complex-mediated injury during infectious mononucleosis, 505
  synergism between splenectomy and depletion of serum in pneumococcemia, 514
Immunoperoxidase antibody technique, for determination of virus-specific IgG, grouping of human adenoviruses, 678
Immunoregulation, and cell triggering of human B lymphocytes, 602
Indian reservation, epidemiology of diarrhea due to rotavirus, 894
Infectious diseases, gaps in therapy
  conference summary, 407

historical perspective, 401
Infectious Diseases Society of America, and the 1980s, 595
Inflammatory response, possible role in enhanced susceptibility of mice infected with murine cytomegalovirus to intranasal challenge with *E. coli*, 525
Influenza, presence of interferon in the sera of humans, 837
Influenza A, live, inactivated vaccine in a mouse model, 320
Influenza B, evaluation of an attenuated, cold-recombinant vaccine, 57
Influenza virus
elevation of nasal viral levels by suppression of fever in infected ferrets, 520
immunization in children with cancer, 126
responses of elderly subjects to new subunit vaccine, 277
Interferon
human leukocyte, prophylactic effect of low doses against infection with rhinovirus, 542
presence during bacterial otitis media, 811
presence in the sera of humans with influenza, 837
Intestinal fluid response, to heat-stable enterotoxin of *E. coli*, effect of calcium and prostaglandin inhibitors, 141
Intraamniotic infection, clinical, quantitative bacteriology of amniotic fluid from women at term, 1
Junin virus, new attenuation marker based on immunologic responses of guinea pigs, 331
Kluyvera species, colonization or diarrhea, 127
β-Lactam antibiotics, classification of enzymes that hydrolyze, 762
Lactate, concentrations in cerebrospinal fluid as an aid in diagnosing bacterial meningitis, 287
Lactation products, effect of immunization against rubella immunologic reactivity in breast milk, 654
maternal-neonatal interactions, 661
Legionella pneumophila
isolation of serogroup 1-specific antigen, 224
role of occupation in seroepidemiology, 275
Leishmania, in vitro susceptibility of antimony-resistant strains to alternative drugs, 279
Leptotrombidium arenicola, and *Leptotrombidium fletcheri*, protection against infection with *R. tsutsugamushi* in mice by bites, 768
Lipopolysaccharide
human antibody responses after meningitis due to *H. influenzae* type b, 181
mutant of *N. gonorrhoeae*, analysis of antigenic and biologic differences, 206
serotypes of *P. aeruginosa*, 217
Liposome-associated amphotericin B, treatment of murine cryptococcosis, 748
Lymphocytes
human, isolation of rubella virus after acute natural infection, 673
human B, cell triggering and immunoregulation, 602
reactivity in otitis media with effusion, 804
Lymphoid cells, from humans and woolly monkeys, persistent infection with adenovirus types 5 and 6, 83
Lysine, failure to prevent gentamicin nephrotoxicity, 129
Macrophages, reactivity in otitis media with effusion, 804
Mannan, candida, enhanced detection with an enzyme-linked immunosorbent assay in antibody-containing serum after heat extraction, 45
Maternal-neonatal interactions, effect of immunization against rubella on lactation products, 661
Meningitis
bacterial
complement-mediated opsonic activity in human cerebrospinal fluid, 635
rapid diagnosis by determination of lactate concentrations in cerebrospinal fluid, 287
due to *H. influenzae* type b, effects on human antibody responses to lipopolysaccharide, 181
purulent, increased concentration of amino acids in the cerebrospinal fluid, 346
Methicillin
bacteremia due to resistant strains of *S. aureus*, 532
subconjunctival, ocular penetration in rabbits with staphylococcal endophthalmitis, 899
Microbial flora, human, selective antimicrobial modulation, 427
Minocycline, chemoprophylaxis for *N. meningitidis*, 103
Mongrel dogs, experimental infection with *G. lamblia* cysts and cultured trophozoites, 89
Monocytes, and polymorphonuclear leukocytes, human, opsonic requirements for uptake of *C. neoformans*, 870
Mononucleosis
acute infectious, ampicillin-specific antibody and delayed hypersensitivity skin tests in patients, 397
infectious, possible role of complement in prevention of immune complex-mediated injury, 505
Moxalactam, pharmacokinetics in patients with normal and impaired renal function, 365
Murine cytomegalovirus, latent, activation, pathogenetic role for acute infection, 699
Mycobacterium avium-intracellulare
and bacille Calmette-Guérin, protection from infection with *M. tuberculosis*, 733
disseminated infection in a homosexual man with Kaposi's sarcoma, 586
Mycobacterium chelonei, treatment of pulmonary infection based on disk diffusion susceptibility data, 772
Mycobacterium chelonei-like organism, peritonitis associated with intermittent chronic peritoneal dialysis, 9, 919
Mycobacterium tuberculosis, protective effects of *M. avium-chelonei* and bacille Calmette-Guérin, 733
Natural mode of acquisition, for infection with *P. carinii*, 842
Naval personnel, United States, pneumonia morbidity during 1970–1979, 766
Neisseria gonorrhoeae
immunogenicity of a pili vaccine in humans and antibody function in vitro, 300
isolation of a lipopolysaccharide mutant, analysis of antigenic and biologic differences, 206
relation of protein I and colony opacity to serum killing, 37
resistance to infection, 623
uncomplicated infections in women, comparison of treatment with spectinomycin, cefuroxime, thiamphenicol, and penicillin G, 583
Neisseria meningitidis
antibody and complement in the stimulation of chemiluminescence by neutrophils from a patient with complete de-

ficiency of C7, 65
chemoprophylaxis in an isolated Arctic community, 103
complement-mediated opsonic activity in human cerebrospinal fluid, 635
detection of carriage by throat culture, 914
increased concentration of amino acids in the cerebrospinal fluid of patients with purulent meningitis, 346
Neonates, pleomorphic, enveloped, virus-like particles associated with gastrointestinal illness, 27
Nephrotoxicity
cephalosporin, prevention by other cephalosporins and by penicillin without significant inhibition of renal cortical uptake, 174
gentamicin
failure of lysine to prevent, 129
sex-related differences in the susceptibility of rats, 370
Neutrophils
automated cytochemical analysis in Chediak-Higashi syndrome, 771
human, opsonophagocytic killing of *B. fragilis*, effect of capsular polysaccharide, 72
from a patient with complete deficiency of C7, antibody and complement in the stimulation by *N. meningitidis* of chemiluminescence, 65
Norwalk virus, acquisition of serum antibody, relation to diarrhea in children in Bangladesh, 483
Nosocomial infections, effects on length of hospitalization, 667
Opsonic activity, complement-mediated, in human cerebrospinal fluid during bacterial meningitis, 635
Opsonic requirements, for uptake of *C. neoformans* by human polymorphonuclear leukocytes and monocytes, 870
Opsonization, for phagocytosis of *B. hermsii* by human polymorphonuclear leukocytes, 358
Opsonophagocytic killing, of *B. fragilis* by neutrophils, effect of capsular polysaccharide, 72
Otitis media
bacterial, presence of interferon, 811
chronic, serous, penetration of antibiotics into the middle ear fluid, 815
with effusion, lymphocyte and macrophage reactivity, 804
experimental, in guinea pigs, *S. pneumoniae* and three species of anaerobic bacteria, 822
Overcrowding, and understaffing, role in outbreaks of staphylococcal infection in a neonatal special-care unit, 875
Oxacillin, subconjunctival, ocular penetration in rabbits with staphylococcal endophthalmitis, 899
Papovavirus, BK, contribution of donor kidneys to infections in renal transplant recipients, 276
Parasitology, of *G. lamblia*
detection in feces by counterimmunoelectrophoresis, 499
infection in rats, 495
Penicillin, cellular uptake and intracellular activity against *H. influenzae* type b, 152
Penicillin G, treatment of uncomplicated gonococcal infections in women, 583
Penicillins, prevention of cephalosporin nephrotoxicity without significant inhibition of renal cortical uptake, 174
Peptostreptococcus micros, in experimental otitis media in guinea pigs, 822
Perilymph, pharmacokinetics of gentamicin in rats as determined by radioimmunoassay, 786
Peritonitis, due to an *M. chelonei*-like organism associated with intermittent chronic peritoneal dialysis, 9, 919
Phagocytosis, by human polymorphonuclear leukocytes, of *B. hermsii*, opsonic requirements, 358
Pharmacokinetics, of moxalactam in patients with normal and impaired renal function, 365
Pivmecillinam, and relapse of typhoid fever, 773
Plasmid-mediated cephalosporinase, from *Achrombacter* species, 753
Pneumococcemia, synergism between splenectomy and depletion of serum complement, 514
Pneumocystis carinii
natural mode of acquisition of infection, 842
provocation of infection by cyclosporin A, 767
Pneumonia
cytomegalovirus-associated interstitial, effects of vaccination in guinea pigs, 742
morbidity in U.S. naval personnel during 1970–1979, 766
Pneumonitis, mouse, agent of, role of antibody in host defense, 200
Polymorphonuclear leukocytes
adherence in patients with sepsis, 351
and monocytes, human, opsonic requirements for uptake of *C. neoformans*, 870
opsonic requirements for phagocytosis of *B. hermsii*, 358
Polysaccharide
capsular, effect on opsonophagocytic killing of *B. fragilis* by neutrophils, 72
high-molecular-weight, serotypes of *P. aeruginosa*, 217
Pregnancy
anorectal and vaginal carriage of group B streptococci, 794
carriage of group B streptococci, 789
maternal carriage and neonatal acquisition of group B streptococci, 800
quantitative bacteriology of amniotic fluid from women with clinical intraamniotic infection at term, 1
specific IgM antibodies as markers of recent primary infection with cytomegalovirus, 647
Pregnant women, seroepidemiology of Epstein-Barr virus, 537
Propionibacterium acnes, in experimental otitis media in guinea pigs, 822
Prostaglandin, inhibitors, effect on intestinal fluid response to heat-stable enterotoxin of *E. coli*, 141
Protein I, relation to serum killing of *N. gonorrhoeae*, 37
Pseudomonas aeruginosa
activation of alternative complement pathway by glycolipoprotein, 78
effects of constant infusions vs. intermittent doses of gentamicin in vitro, 554
lipopolysaccharide and high-molecular-weight polysaccharide serotypes, 217
toxoid from enterotoxin A, 688
turbidimetric study of response to β-lactam antibiotics, 110
Pulmonary infection, with *M. chelonei*, treatment based on disk diffusion susceptibility data, 772
Pyelonephritis, due to *S. aureus*, antibiotic tolerance in treatment of rats, 169
Pyridoxine, therapy for tetanus neonatorum, 547

Rabies
antibody responses to human diploid cell vaccine, 720
excretion of virus in saliva of dogs, 715
Radioimmunoassay
for IgM antibodies to cytomegalovirus, 647
pharmacokinetics of gentamicin in perilymph and endolymph of the rat, 786
Renal function, normal and impaired, pharmacokinetics of moxalactam, 365
Renal transplant recipients, contribution of donor kidneys to BK papovavirus infections, 276
Resistance
to cefamandole, emerging clinical problems, 118
to infection with the gonococcus, 623
Resistance plasmids, and epidemiology of gentamicin-resistant staphylococci as hospital flora, 374
Respiratory syncytial virus, parenteral administration of live vaccine, 311
Rhinovirus
prophylactic effect of low doses of human leukocyte interferon against infection, 542
shedding of infected ciliated epithelial cells in colds, 849
Rhodochrous, taxon, infection, 400
Ribonucleic acid, immune, in vitro transfer of reactivity to *T. cruzi* antigens from rat cells to human cells, 148
Rickettsia rickettsii, in vitro sensitivity to doxycycline, 584
Rickettsia tsutsugamushi, protection against natural infection in mice, 768
Rifampin, chemoprophylaxis for *N. meningitidis*, 103
Rotavirus
acquisition of serum antibody, relation to diarrhea in children in Bangladesh, 483
epidemiology of diarrhea on an Indian reservation, 894
Route of injection, of diphtheria toxin, effect on toxicity, 94
Rubella, effect of immunization on lactation products
immunologic reactivity in breast milk, 654
maternal-neonatal interactions, 661
Rubella virus, isolation from human lymphocytes after acute natural infection, 673
Saliva, of dogs, excretion of rabies virus, 715
Salmonella typhi
pivmecillinam and relapse of typhoid fever, 773
strain Ty 21a, live oral vaccine against typhoid, 292
Sarcoma, Kaposi's, disseminated infection due to *M. avium-intracellulare* in an affected homosexual man, 586
Schistosoma mansoni
cross protection from infections using tegument antigens of *F. hepatica*, 728
ecology of eosinophils, 613
Scrapie virus, hamster-adapted, effect of chemicals, heat, and histopathologic processing, 683
Selective antimicrobial modulation, of human microbial flora, 427
Sepsis, adherence of polymorphonuclear leukocytes to nylon from patients, 351
Seroepidemiology, of Epstein-Barr virus in pregnant women, 537
Serum bactericidal activity, correlated with antimicrobial agent level and minimal bactericidal concentration, 160
Serum killing, of *N. gonorrhoeae*, relation to protein I and colony hybridization, 37
Sewage water, in Brazil, nonenterotoxigenic *V. cholerae* serogroup O1 biotype El Tor, 296
Sex-related differences, in the susceptibility of rats to gentamicin nephrotoxicity, 370
Sexually transmitted diseases
increased risk of infection with hepatitis A and B viruses in men with a history of syphilis, relation to sexual contacts, 23
countering the epidemic, 422
Skin tests, delayed hypersensitivity, and ampicillin-specific antibody in patients with mononucleosis, 397
Sodium chloride, effects on growth of gram-negative bacilli on solid media, 769
Specific-antibody-producing hybridomas, 135
Spectinomycin, treatment of uncomplicated gonococcal infections in women, 583
Staphylococcus aureus
antibiotic tolerance in treatment of pyelonephritis in rats, 169
bacteremia due to methicillin-resistant strains, 532
gentamicin-resistant, as hospital flora, epidemiology and resistance plasmids, 374
ocular penetration of subconjunctival antibiotics in rabbits with endophthalmitis, 899
role of understaffing and overcrowding in outbreaks of infection in a neonatal special-care unit, 875
Staphylococcus species, nasal and cutaneous, among patients receiving hemodialysis, 396
Streptococci
group A, β-hemolytic, current susceptibility to antibiotics, 916
group B
anorectal and vaginal carriage during pregnancy, 794
during pregnancy, 789
maternal carriage and neonatal acquisition, 800
viridans, in cigarette smokers with chronic obstructive bronchitis, 234
Streptococcus pneumoniae
in experimental otitis media in guinea pigs, 822
increased concentrations of amino acids in the cerebrospinal fluid of patients with purulent meningitis, 346
synergism between splenectomy and depletion of serum complement after challenge, 514
Sulfadiazine-resistant *N. meningitidis*, chemoprophylaxis in an isolated Arctic community, 103
Swab materials, and temperature, role in recovery of herpes simplex virus from lesions, 399
Syphilis, increased risk of infection with hepatitis A and B viruses in men with a history, relation to sexual contacts, 23
Tampons
effect of publicity on reporting of use by patients with toxic-shock syndrome in Wisconsin, 449
properties associated with risk in the Tri-State Toxic-Shock Syndrome Study, 431
Taxon rhodochrous, infection, 400
Temperature
effects on antimicrobial susceptibility of bacteria, 550
and swab materials, role in recovery of herpes simplex virus from lesions, 399
Tetanus

neonatorum, therapy with pyridoxine, 547
serum antibody to toxin during disease and after specific immunization, 278
Thailand, Rangsit, cholera among refugees, 131
Thiamphenicol, in the treatment of uncomplicated gonococcal infections in women, 583
Throat culture, used to detect carriage of *N. meningitidis*, 914
Thrombocytopenia, cephalothin-associated, 281
Tissue culture, cultivation of *B. fragilis*, 859
Tissue infection, correlation with bacteriuria, 917
Toxic-shock syndrome
effect of publicity on reporting in Wisconsin, 449
an epidemiologist's view, 588
results of an active-passive surveillance system in Minnesota, 458
Tri-State Study
clinical and laboratory findings, 441
epidemiologic findings, 431
Toxin, *C. difficile*, counterimmunoelectrophoresis vs. cytotoxicity assay for detection, 398
Toxoid, from enterotoxin A of *P. aeruginosa*, 688
Toxoplasma gondii
duration of IgM antibodies after acute acquired toxoplasmosis, 770
isolated from the saliva and tonsils of a child, 587
Trichomonas vaginalis, biochemical diagnosis of vaginitis, determination of diamines in vaginal fluid, 337
Trimethoprim-sulfamethoxazole, penetration into the middle ear fluid of patients with chronic serous otitis media, 815
Tri-State Toxic-Shock Syndrome Study
epidemiologic findings, 431
clinical and laboratory findings, 441
Trypanosoma cruzi, in vitro transfer of reactivity to antigens from rat cells to human cells with immune RNA, 148
Turbidimetric monitoring, of responses of *P. aeruginosa* to β-lactam antibiotics, 110
Typhoid, live *S. typhi* strain Ty 21a oral vaccine, 292
Typhoid fever, new oral vaccine, 289
Ultrastructural alterations, in hepatocytes of chimpanzees with experimental non-A, non-B hepatitis, 854
Understaffing, and overcrowding, role in outbreaks of staphylococcal infection in a neonatal special-care unit, 875
Vaccination, effect on cytomegalovirus-associated interstitial pneumonia in guinea pigs, 742
Vaccine
gonococcal pili, safety and immunogenicity in humans and antibody function in vitro, 300
human diploid cell for rabies, antibody responses, 720
live, attenuated
cold-recombinant, influenza B virus, an evaluation, 57
Junin virus, new attenuation marker based on immunologic responses of guinea pigs, 331
oral
against typhoid fever, 289
S. typhi strain Ty 21a against typhoid fever, 292
rubella virus, effect on lactation products
immunologic reactivity in breast milk, 654
maternal-neonatal interactions, 661
respiratory syncytial virus, parenterally administered, 311
live and inactivated, influenza A virus in a mouse model, 320
new subunit, influenza virus, responses of elderly subjects, 277
Vaccines, genital herpes, concept review, 413
Vaginal and anorectal carriage, of group B streptococci during during pregnancy, 794
Vaginitis, biochemical diagnosis, determination of diamines in vaginal fluid, 337
Vancomycin, effective as therapy for bacteremia due to methicillin-resistant *S. aureus*, 532
Vibrio cholerae
antibody responses in North Americans after ingestion, 465
purification and characterization of mucinase, 474
serogroup O1 biotype El Tor, nonenterotoxigenic, isolated from sewage water in Brazil, 296
Virus-like particles, pleomorphic, enveloped, associated with gastrointestinal illness in neonates, 27
Woolly monkeys, and humans, persistent infection with adenovirus types 5 and 6 in lymphoid cells, 83
Yersinia enterocolitica, serotype O:5, biotype 1, nosocomial outbreak of diarrheal disease, 242

The Journal of Infectious Diseases

An Official Publication of the Infectious Diseases Society of America

George Gee Jackson, *Editor*
Truman O. Anderson, *Associate Editor*
Pierce Gardner, *Associate Editor*
Samuel P. Gotoff, *Associate Editor*
Elliott Kieff, *Associate Editor*
Mark H. Lepper, *Associate Editor*
Philip Y. Paterson, *Associate Editor*

Laura Mendelson, *Managing Editor*
Timothy R. Clancy, *Editorial Assistant*
Joan David, *Editorial Assistant*
Eleanor Millspaugh, *Editorial Assistant*
Douglas R. Reifler, *Editorial Assistant*
Amy C. Jackson, *Administrative Assistant*

EDITORIAL BOARD

E. Russell Alexander, Tucson, Ariz.
Charles A. Alford, Jr., Birmingham, Ala.
John G. Bartlett, Baltimore, Md.
Robert B. Couch, Houston, Tex.
Anthony S. Fauci, Bethesda, Md.
Scott B. Halstead, Honolulu, Hawaii
Robert C. Moellering, Jr., Boston, Mass.
Stephen A. Morse, Portland, Ore.
William S. Robinson, Stanford, Calif.
Alexander Tomasz, New York, N.Y.
John A. Washington II, Rochester, Minn.
Lowell S. Young, Los Angeles, Calif.

INTERNATIONAL BOARD OF EDITORS

George K. Daikos, Athens, Greece
Erik De Clercq, Leuven, Belgium
Friedrich Deinhardt, Munich, West Germany
Ian Gust, Melbourne, Australia
Nakao Ishida, Sendai, Japan
Ku Fang-chou, Peking, China
Allan R. Ronald, Winnipeg, Manitoba, Canada
Harry Smith, Birmingham, England
Claus O. Solberg, Bergen, Norway
Ricardo Veronesi, São Paulo, Brazil
Victor M. Villarejos, San Jose, Costa Rica
Francis Waldvogel, Geneva, Switzerland

VOLUME 145
JANUARY–JUNE 1982

All rights reserved
THE UNIVERSITY OF CHICAGO PRESS, CHICAGO
THE UNIVERSITY OF CHICAGO PRESS LTD., LONDON S.W. 1

© 1982 BY THE UNIVERSITY OF CHICAGO
PUBLISHED MONTHLY JANUARY–JUNE

Printed in U.S.A.

The Journal of Infectious Diseases

Volume 145 • *January 1982* • *Number 1*

CONTENTS

Original Articles

Clinical Investigation

Quantitative Bacteriology of Amniotic Fluid from Women with Clinical Intraamniotic Infection at Term	Ronald S. Gibbs, Jorge D. Blanco, Patricia J. St. Clair, and Yolanda S. Castaneda	1
Peritonitis Due to a *Mycobacterium chelonei*–Like Organism Associated with Intermittent Chronic Peritoneal Dialysis	J. D. Band, J. I. Ward, D. W. Fraser, N. J. Peterson, V. A. Silcox, R. C. Good, P. R. Ostroy, and J. Kennedy	9
Delta Infection and Liver Disease in Hemophilic Carriers of Hepatitis B Surface Antigen	M. Rizzetto, C. Morello, P. M. Mannucci, D. J. Gocke, J. A. Spero, J. H. Lewis, D. H. Van Thiel, C. Scaroni, and F. Peyretti	18
Increased Risk of Infection with Hepatitis A and B Viruses in Men with a History of Syphilis: Relation to Sexual Contacts	Peter Kryger, Nils S. Pedersen, Lars Mathiesen, and Jens O. Nielsen	23
Pleomorphic, Enveloped, Virus-Like Particles Associated with Gastrointestinal Illness in Neonates	Y. E. Vaucher, C. G. Ray, L. L. Minnich, C. M. Payne, D. Beck, and P. Lowe	27

Medical Microbiology

Relation of Protein I and Colony Opacity to Serum Killing of *Neisseria gonorrhoeae*	John F. James, Elisabeth Zurlinden, Claudia J. Lammel, and G. F. Brooks	37
Enhanced Detection with an Enzyme-Linked Immunosorbent Assay of Candida Mannan in Antibody-Containing Serum after Heat Extraction	Michael A. Lew, George R. Siber, Diane M. Donahue, and Frank Maiorca	45

Immunology and Host Resistance

Evaluation of an Attenuated, Cold-Recombinant Influenza B Virus Vaccine	Arnold S. Monto, F. DeWolfe Miller, and H. F. Maassab	57
Antibody and Complement in the Stimulation of Neutrophil Chemiluminescence by *Neisseria meningitidis*: Studies in a Patient with Complete Deficiency of C7	Kathryn M. Edwards, Henry Gewurz, Steven J. Sokalski, Lily Chan, and Thomas F. Lint	65
Alterations in Opsonophagocytic Killing by Neutrophils of *Bacteroides fragilis* Associated with Animal and Laboratory Passage: Effect of Capsular Polysaccharide	Gary L. Simon, Mark S. Klempner, Dennis L. Kasper, and Sherwood L. Gorbach	72
Activation of the Alternative Pathway of Human Complement by the Extracellular Slime Glycolipoprotein of *Pseudomonas aeruginosa*	J. Lambris, M. Papamichail, C. Ioannidis, and G. Dimitracopoulos	78

Laboratory and Experimental Research

Persistent Infection with Adenovirus Types 5 and 6 in Lymphoid Cells from Humans and Woolly Monkeys	W. A. Andiman and G. Miller	83

Experimental Infection of Mongrel Dogs with *Giardia lamblia* Cysts and Cultured Trophozoites	Erik L. Hewlett, John S. Andrews, Jr., Juanita Ruffier, and Frank W. Schaefer III	89
Diphtheria Toxin and Related Proteins: Effect of Route of Injection on Toxicity and the Determination of Cytotoxicity for Various Cultured Cells	A. M. Pappenheimer, Jr., Annabel A. Harper, Michael Moynihan, and Jeremy P. Brockes	94

Antimicrobial Agents and Therapeutics

Chemoprophylaxis for *Neisseria meningitidis* in an Isolated Arctic Community	L. E. Nicolle, B. Postl, E. Kotelewetz, F. Remillard, A. M. Bourgault, W. Albritton, G. K. M. Harding, and A. Ronald	103
A Turbidimetric Study of the Responses of Selected Strains of *Pseudomonas aeruginosa* to Eight Antipseudomonal β-Lactam Antibiotics	David Greenwood and Adrian Eley	110
Resistance to Cefamandole: A Collaborative Study of Emerging Clinical Problems	C. C. Sanders, R. C. Moellering, Jr., R. R. Martin, R. L. Perkins, D. G. Strike, T. D. Gootz, and W. E. Sanders, Jr.	118

Data Forum

Immunization Against Influenza in Children with Cancer: Results of a Three-Dose Trial	A. E. Brown, P. G. Steinherz, D. R. Miller, D. Armstrong, M. G. Kellick, P. A. Gross, and A. E. Davis	126
Colonization by or Diarrhea Due to *Kluyvera* Species	Victor Fainstein, Roy L. Hopfer, K. Mills, and Gerald P. Bodey	127
Effect of Erythromycin on the Fecal Excretion of *Campylobacter fetus* Subspecies *jejuni*	Tapio Pitkänen, Tor Pettersson, Antti Pönkä, and Timo U. Kosunen	128
Failure of Lysine to Prevent Experimental Gentamicin Nephrotoxicity	David N. Gilbert, Sue J. Kohlhepp, Paul W. Kohnen, W. Clay Elliott, and William M. Bennett	129
Differential Effects of *E*-5-(2-Bromovinyl)-2′-Deoxyuridine on Infections with Herpes Simplex Virus Type 1 and Type 2 in Hairless Mice	Erik De Clercq and Zhen-Xi Zhang	130

Institutional Report

Centers for Disease Control

Cholera among Refugees in Rangsit, Thailand	J. G. Morris, Jr., G. R. West, S. E. Holck, P. A. Blake, P. D. Echeverria, and M. Karaulnik	131

Correspondence

An Interesting Early Observation Concerning Specific Antibody-Producing Hybridomas	Joseph G. Sinkovics	135
Statement of Editorial Policy		136
Instructions to Authors		137

Volume 145 • *February 1982* • *Number 2*

CONTENTS

Original Articles

Cell Biology

The Effect of Calcium and Prostaglandin Inhibitors on the Intestinal Fluid Response to Heat-Stable Enterotoxin of *Escherichia coli* — D. Denee Thomas and Floyd C. Knoop — 141

In Vitro Transfer of Reactivity to *Trypanosoma cruzi* Antigens from Rat Cells to Human Cells with Immune RNA — Fernando L. De Lucca, Maria C. Bertolini, and Marcelo N. Zini — 148

Therapeutics

Cellular Uptake and Intracellular Activity of Antibiotics Against *Haemophilus influenzae* Type b — Richards F. Jacobs, Christopher B. Wilson, Judy G. Laxton, Joel E. Haas, and Arnold L. Smith — 152

Correlation of Serum Bactericidal Activity with Antimicrobial Agent Level and Minimal Bactericidal Concentration — Charles W. Stratton, Melvin P. Weinstein, and L. Barth Reller — 160

The Role of Antibiotic Tolerance in the Response to Treatment of Pyelonephritis Due to *Staphylococcus aureus* in Rats — Phyllis A. Guze, George M. Kalmanson, and Lucien B. Guze — 169

Prevention of Cephalosporin Nephrotoxicity by Other Cephalosporins and by Penicillins Without Significant Inhibition of Renal Cortical Uptake — Bruce M. Tune, Marc C. Browning, Chieh-Yin Hsu, and Doris Fravert — 174

Immunology and Host Defense

Human Antibody Responses to Lipopolysaccharide after Meningitis Due to *Haemophilus influenzae* Type b — Jerry L. Shenep, Robert S. Munson, Jr., and Dan M. Granoff — 181

Virus-Specific IgG and IgM Antibodies in Normal and Immunocompromised Subjects Infected with Cytomegalovirus — L. Rasmussen, D. Kelsall, R. Nelson, W. Carney, M. Hirsch, D. Winston, J. Preiksaitis, and T. C. Merigan — 191

The Role of Antibody in Host Defense Against the Agent of Mouse Pneumonitis — Dwight M. Williams, Julius Schachter, Barry Grubbs, and Ciro V. Sumaya — 200

Medical Microbiology

Isolation of a Lipopolysaccharide Mutant of *Neisseria gonorrhoeae:* An Analysis of the Antigenic and Biologic Differences — Stephen A. Morse and Michael A. Apicella — 206

Lipopolysaccharide and High-Molecular-Weight Polysaccharide Serotypes of *Pseudomonas aeruginosa* — Gerald B. Pier and Diane M. Thomas — 217

Isolation of a Serogroup 1-Specific Antigen from *Legionella pneumophila* — Alan R. Flesher, Harold J. Jennings, Czeslaw Lugowski, and Dennis L. Kasper — 224

Clinical Investigation

Prediction of Tracheobronchial Colonization in Current Cigarette Smokers with Chronic Obstructive Bronchitis	R. S. Irwin, A. D. Erickson, M. R. Pratter, W. M. Corrao, F. L. Garrity, J. R. Myers, and J. T. Kaemmerlen	234
A Nosocomial Outbreak of Diarrheal Disease Due to *Yersinia enterocolitica* Serotype O:5, Biotype 1	Samuel Ratnam, Elizabeth Mercer, Brenda Picco, Sandra Parsons, and Ralph Butler	242
Cholera-Like Illness Due to *Aeromonas sobria*	H. Champsaur, A. Andremont, D. Mathieu, E. Rottman, and P. Auzepy	248

Epidemiology

Risk Factors for Hepatitis A in Day-Care Centers	Stephen C. Hadler, John J. Erben, Donald P. Francis, Hannah M. Webster, and James E. Maynard	255
Transmission of Hepatitis B by an Oral Surgeon	A. L. Reingold, M. A. Kane, B. L. Murphy, P. Checko, D. P. Francis, and J. E. Maynard	262
Antibiotic-Associated Pseudomembranous Colitis: An Epidemiologic Investigation of a Cluster of Cases	P. F. Pierce, Jr., R. Wilson, J. Silva, Jr., V. F. Garagusi, G. D. Rifkin, R. Fekety, O. Nunez-Montiel, V. R. Dowell, Jr., and J. M. Hughes	269

Data Forum

The Role of Indoor and Outdoor Occupations in the Seroepidemiology of *Legionella pneumophila*	Whitney R. Snowman, Frank J. Holtzhauer, Thomas J. Halpin, and Adolfo Correa-Villasenor	275
BK Papovavirus Infections in Renal Transplant Recipients: Contribution of Donor Kidneys	C. Andrews, K. V. Shah, R. Rubin, and M. Hirsch	276
Responses of Elderly Subjects to a New Subunit Influenza Virus Vaccine	Michael W. Brandriss, Jacob J. Schlesinger, and R. Gordon Douglas, Jr.	277
Serum Levels of Antibody to Toxoid During Tetanus and after Specific Immunization of Patients with Tetanus	P. Yeni, C. Carbon, F. Tremolieres, and C. Gibert	278
In Vitro Susceptibility of Antimony-Resistant *Leishmania* to Alternative Drugs	Jonathan D. Berman	279

Clinical Briefs

Occult Bacteremia Due to *Haemophilus influenzae* Type b in a 10-Year-Old Girl	Henry M. Feder, Jr.	280
Nonrecurrence of Cephalothin-Associated Granulocytopenia and Thrombocytopenia	Sirus Naraqi and Manfred Raiser	281
Vesicouterine Fistula Caused by *Fusobacterium necrophorum*	David A. Baker	282

Institutional Report

Centers for Disease Control

Human Arboviral Infections in the United States in 1980	K. D. Kappus, G. E. Sather, J. E. Kaplan, L. B. Schonberger, T. P. Monath, and C. H. Calisher	283

Correspondence

Determination of Lactate Concentrations in Cerebrospinal Fluid for Rapid Diagnosis Early in Bacterial Meningitis	P. R. Donald, C. Malan, and J. H. Dykman	287

Volume 145 • *March 1982* • *Number 3*

CONTENTS

Editorial

A New Oral Vaccine Against Typhoid Fever	Theodore E. Woodward and William E. Woodward	289

Original Articles

Vaccines

A Controlled Field Trial of Live *Salmonella typhi* Strain Ty 21a Oral Vaccine Against Typhoid: Three-Year Results	M. H. Wahdan, C. Sérié, Y. Cerisier, S. Sallam, and R. Germanier	292
The Pathogenicity of Nonenterotoxigenic *Vibrio cholerae* Serogroup O1 Biotype El Tor Isolated from Sewage Water in Brazil	M. M. Levine, R. E. Black, M. L. Clements, L. Cisneros, A. Saah, D. R. Nalin, D. M. Gill, J. P. Craig, C. R. Young, and P. Ristaino	296
Gonococcal Pili: Safety and Immunogenicity in Humans and Antibody Function in Vitro	Martin Siegel, Duane Olsen, Cathy Critchlow, and Thomas M. Buchanan	300
Parenteral Administration of Live Respiratory Syncytial Virus Vaccine: Results of a Field Trial	Robert B. Belshe, Lee P. Van Voris, and Maurice A. Mufson	311
Evaluation of Live and Inactivated Influenza A Virus Vaccines in a Mouse Model	Dieter Armerding, Heidi Rossiter, Ismail Ghazzouli, and Ekke Liehl	320
New Attenuation Marker for Junin Virus Based on Immunologic Responses of Guinea Pigs	Nora V. Galassi, Jorgelina L. Blejer, Hebe Barrios, Marta R. Nejamkis, and Nora R. Nota	331

Medical Microbiology

Biochemical Diagnosis of Vaginitis: Determination of Diamines in Vaginal Fluid	Kirk C. S. Chen, Richard Amsel, David A. Eschenbach, and King K. Holmes	337
Increased Total Concentration of Amino Acids in the Cerebrospinal Fluid of Patients with Purulent Meningitis	Haraldur Briem, Eric H. Hultman, Mats E. Kalin, and Per R. Lundbergh	346

Host Defense

The Adherence of Polymorphonuclear Leukocytes in Patients with Sepsis — Frank R. Venezio, Grant O. Westenfelder, and John P. Phair — 351

Opsonic Requirements for Phagocytosis of *Borrelia hermsii* by Human Polymorphonuclear Leukocytes — P. J. Spagnuolo, T. Butler, E. H. Bloch, C. Santoro, J. W. Tracy, and R. C. Johnson — 358

Pharmacology of Chemotherapy

Pharmacokinetics of Moxalactam in Patients with Normal and Impaired Renal Function — George R. Aronoff, Rebecca S. Sloan, and Friedrich C. Luft — 365

Sex-Related Differences in the Susceptibility of Rats to Gentamicin Nephrotoxicity — William M. Bennett, Richard A. Parker, W. Clayton Elliott, David N. Gilbert, and Donald C. Houghton — 370

Epidemiology of Infection

Gentamicin-Resistant Staphylococci as Hospital Flora: Epidemiology and Resistance Plasmids — R. A. Weinstein, S. A. Kabins, C. Nathan, H. M. Sweeney, H. W. Jaffe, and S. Cohen — 374

Alanine Aminotransferase Levels among Volunteer Blood Donors: Geographic Variation and Risk Factors — Kenneth E. Sherman, Roger Y. Dodd, and the American Red Cross Alanine Aminotransferase Study Group — 383

Medical Perspective

The Enigma of Non-A, Non-B Hepatitis — William S. Robinson — 387

Data Forum

Nasal and Cutaneous *Staphylococcus* among Patients Receiving Hemodialysis and Attending Personnel — Simeon E. Goldblum, John A. Ulrich, Richard S. Goldman, and William P. Reed — 396

Ampicillin-Specific Antibody and Delayed Hypersensitivity Skin Tests to Ampicillin in Patients with Acute Infectious Mononucleosis — Ronica M. Kluge, Robert H. Waldman, Jeffrey C. Delafuente, and Raymond G. Slavin — 397

Counterimmunoelectrophoresis vs. Cytotoxicity Assay for the Detection of *Clostridium difficile* Toxin — Harold G. Levine, Michael Kennedy, and J. Thomas LaMont — 398

The Role of Temperature and Swab Materials in the Recovery of Herpes Simplex Virus from Lesions — Elena J. Bettoli, Patricia M. Brewer, Margaret J. Oxtoby, Akbar A. Zaidi, and Mary E. Guinan — 399

Clinical Brief

Infection Due to the Taxon Rhodochrous — Richard Blair — 400

Conference Reports

Gaps in Therapy for Infectious Diseases: A Historical Perspective — Maxwell Finland — 401

Gaps in Therapy for Infectious Diseases: Conference Summary — Theodore C. Eickhoff and Lowell S. Young — 407

Concept Review of Genital Herpes Vaccines — William P. Allen and Fred Rapp — 413

IDSA Dialogue

Countering the Epidemic of Sexually Transmitted Diseases: A Call to Action — L. Corey, S. R. Knox, R. L. Perkins, R. C. Noble, R. V. Lee, and P. E. Dans — 422

Correspondence

Selective Antimicrobial Modulation of Human Microbial Flora — Kenneth H. Wilson, John N. Sheagren, and Rolf G. Freter — 427

Reply — Henri F. L. Guiot, Jos W. M. van der Meer, and Ralph van Furth — 428

Volume 145 • *April 1982* • *Number 4*

CONTENTS

Original Articles

Toxic-Shock Syndrome

Tri-State Toxic-Shock Syndrome Study. I. Epidemiologic Findings — M. T. Osterholm, J. P. Davis, R. W. Gibson, J. S. Mandel, L. A. Wintermeyer, C. M. Helms, J. C. Forfang, J. Rondeau, J. M. Vergeront, and the Investigation Team — 431

Tri-State Toxic-Shock Syndrome Study. II Clinical and Laboratory Findings — J. P. Davis, M. T. Osterholm, C. M. Helms, J. M. Vergeront, L. A. Wintermeyer, J. C. Forfang, L. A. Judy, J. Rondeau, W. L. Schell, and the Investigation Team — 441

The Effect of Publicity on the Reporting of Toxic-Shock Syndrome in Wisconsin — Jeffrey P. Davis and James M. Vergeront — 449

Toxic-Shock Syndrome in Minnesota: Results of an Active-Passive Surveillance System — Michael T. Osterholm and Jan C. Forfang — 458

Intestinal Infections

Magnitude, Kinetics, and Duration of Vibriocidal Antibody Responses in North Americans after Ingestion of *Vibrio cholerae* — M. L. Clements, M. M. Levine, C. R. Young, R. E. Black, Y. L. Lim, R. M. Robins-Browne, and J. P. Craig — 465

Purification and Characterization of the Mucinase of *Vibrio cholerae* — Dennis R. Schneider and Charlotte D. Parker — 474

Acquisition of Serum Antibody to Norwalk Virus and Rotavirus and Relation to Diarrhea in a Longitudinal Study of Young Children in Rural Bangladesh — Robert E. Black, Harry B. Greenberg, Albert Z. Kapikian, Kenneth H. Brown, and Stan Becker — 483

In Vivo Effects of Enterotoxin from *Clostridium perfringens* Type A in the Rabbit Colon: Binding vs. Biologic Activity — James L. McDonel and G. William Demers — 490

Experimental Infection with *Giardia lamblia* in Rats	J. Carl Craft	495
Diagnosis of Giardiasis by Counterimmunoelectrophoresis of Feces	J. Carl Craft and John D. Nelson	499
Immunology and Pathobiology		
Complement Behavior in Infectious Mononucleosis: Possible Mechanisms for the Prevention of Immune Complex Injury	J. A. Charlesworth, Z. H. Endre, B. A. Pussell, D. Yasmeen, and P. W. Peake	505
Synergism Between the Spleen and Serum Complement in Experimental Pneumococcemia	David B. Van Wyck, Marlys H. Witte, and Charles L. Witte	514
Elevation of Nasal Viral Levels by Suppression of Fever in Ferrets Infected with Influenza Viruses of Differing Virulence	R. H. Husseini, C. Sweet, M. H. Collie, and H. Smith	520
Enhanced Susceptibility of Mice Infected with Murine Cytomegalovirus to Intranasal Challenge with *Escherichia coli:* Pathogenesis and Altered Inflammatory Response	James F. Bale, Jr., Earl R. Kern, James C. Overall, Jr., and Lowell A. Glasgow	525
Clinical Investigation		
Bacteremia Due to Methicillin-Resistant *Staphylococcus aureus*	Joseph P. Myers and Calvin C. Linneman, Jr.	532
Seroepidemiology of Epstein-Barr Virus in Pregnant Women	Gary R. Fleisher and Ronald Bolognese	537
Prophylactic Effect of Low Doses of Human Leukocyte Interferon Against Infection with Rhinovirus	S. B. Greenberg, M. W. Harmon, R. B. Couch, P. E. Johnson, S. Z. Wilson, C. C. Dacso, K. Bloom, and J. Quarles	542
Trial of Pyridoxine Therapy for Tetanus Neonatorum	J. C. Godel	547
Therapeutics		
Effects of Temperature on Antimicrobial Susceptibility of Bacteria	Philip A. Mackowiak, Margaret Marling-Cason, and Richard L. Cohen	550
Constant Infusions vs. Intermittent Doses of Gentamicin Against *Pseudomonas aeruginosa* in Vitro	Andreas U. Gerber, Peter Wiprächtiger, Ursula Stettler-Spichiger, and Gerhard Lebek	554
Comparative Efficacy of 10 Antimicrobial Agents in Experimental Infections with *Bacteroides fragilis*	Keith Joiner, Bruce Lowe, Jody Dzink, and John G. Bartlett	561
Therapeutic Effects of Foscarnet Sodium and Acyclovir on Cutaneous Infections Due to Herpes Simplex Virus Type 1 in Guinea Pigs	S. Alenius, M. Berg, F. Broberg, K. Eklind, B. Lindborg, and B. Öberg	569
Effects of Ureteral Obstruction on the Toxicity of Cephalosporins in the Rabbit Kidney	Peter L. Wang, Donald J. Prime, Chieh-Yin Hsu, and Bruce M. Tune	574
Data Forum		
Effect of Duration of Exposure on Diarrhea Due to Enterotoxigenic *Escherichia coli* in Travelers from the United States to Mexico	Marvin R. Brown, Herbert L. DuPont, and Peggy S. Sullivan	582

Comparison of Spectinomycin, Cefuroxime, Thiamphenicol, and Penicillin G in the Treatment of Uncomplicated Gonococcal Infections in Women — Thelma E. Tupasi, Lita B. Crisologo, Cleotilde A. Torres, and Ofelia V. Calubiran — 583

In Vitro Sensitivity of *Rickettsia rickettsii* to Doxycycline — Charles L. Wisseman, Jr., and Anna Waddell — 584

Change in Serum pH in the Bioassay of Aminoglycoside Antibiotics — Marcelo Wolff, Herman Chmel, and Robert H. K. Eng — 585

Clinical Briefs

Disseminated Infection Due to *Mycobacterium avium-intracellulare* in a Homosexual Man with Kaposi's Sarcoma — V. Fainstein, R. Bolivar, G. Mavligit, A. Rios, and M. Luna — 586

Isolation of *Toxoplasma gondii* from the Saliva and Tonsils of a Three-Year-Old Child — Maria Regina R. Amendoeira and Sergio G. Coutinho — 587

Medical Perspective

Toxic-Shock Syndrome—An Epidemiologist's Viewpoint — Alexander D. Langmuir — 588

Correspondence

Parenteral Nutrition Complicated by Candidiasis — Paul J. Pockros and Howard Silberman — 592

Reply — John Z. Montgomerie, David Henderson, and John E. Edwards, Jr. — 593

Volume 145 • *May 1982* • *Number 5*

CONTENTS

Annual Meeting

Infectious Diseases Society of America

The Infectious Diseases Society of America and the 1980s — Sheldon M. Wolff — 595

Human B Lymphocyte Function: Cell Triggering and Immunoregulation — Anthony S. Fauci — 602

The Ecology of Eosinophils in Schistosomiasis — Adel A. F. Mahmoud — 613

Resistance to Infection with the Gonococcus — Abraham I. Braude — 623

Original Articles

Clinical Investigation

Complement-Mediated Opsonic Activity in Normal and Infected Human Cerebrospinal Fluid: Early Response During Bacterial Meningitis — André Zwahlen, Urs E. Nydegger, Pierre Vaudaux, Paul-Henri Lambert, and Francis A. Waldvogel — 635

Infection with Cytomegalovirus During Pregnancy: Specific IgM Antibodies as a Marker of Recent Primary Infection — Paul D. Griffiths, Sergio Stagno, Robert F. Pass, Richard J. Smith, and Charles A. Alford, Jr. — 647

Effect of Immunization Against Rubella on Lactation Products. I. Development and Characterization of Specific Immunologic Reactivity in Breast Milk	Genevieve A. Losonsky, J. Mark Fishaut, Joanne Strussenberg, and Pearay L. Ogra	654
Effect of Immunization Against Rubella on Lactation Products. II. Maternal-Neonatal Interactions	Genevieve A. Losonsky, J. Mark Fishaut, Joanne Strussenberg, and Pearay L. Ogra	661
Estimating the Effects of Nosocomial Infections on the Length of Hospitalization	Manfred S. Green, Ethan Rubinstein, and Pnina Amit	667
Medical Microbiology		
Isolation of Rubella Virus from Human Lymphocytes after Acute Natural Infection	J. K. Chantler and A. J. Tingle	673
Grouping of Human Adenoviruses by Early Antigen Reactivity	Giuseppe Gerna, Ercole Cattaneo, M. Grazia Revello, and Massimo Battaglia	678
Effect of Chemicals, Heat, and Histopathologic Processing on High-Infectivity Hamster-Adapted Scrapie Virus	Paul Brown, Robert G. Rohwer, Ernest M. Green, and D. Carleton Gajdusek	683
Toxoid from Exotoxin A of *Pseudomonas aeruginosa:* Preparation and Characterization	Matthew Pollack and Richard K. Prescott	688
Pathogenesis and Experimental Medicine		
Activation of Latent Murine Cytomegalovirus in Vivo and in Vitro: A Pathogenetic Role for Acute Infection	M. Colin Jordan, JoAnne L. Takagi, and Jack G. Stevens	699
The Effects of Strenuous Exercise on Infection with *Francisella tularensis* in Rats	Göran Friman, Nils-Gunnar Ilbäck, William R. Beisel, and Daniel J. Crawford	706
Excretion of Rabies Virus in the Saliva of Dogs	Makonnen Fekadu, John H. Shaddock, and George M. Baer	715
Immunology and Host Resistance		
Antibody Responses to Human Diploid Cell Vaccine for Rabies with and Without Human Rabies Immune Globulin	G. J. Mertz, K. E. Nelson, V. Vithayasai, S. Makornkawkeyoon, E. I. Rosanoff, H. Tint, and T. J. Wiktor	720
Cross Protection in Infections Due to *Schistosoma mansoni* Using Tegument Antigens of *Fasciola hepatica*	George V. Hillyer and Adelfa E. Serrano	728
Infection with *Mycobacterium avium-intracellulare* and the Protective Effects of Bacille Calmette-Guérin	M. L. Edwards, J. M. Goodrich, D. Muller, A. Pollack, J. E. Ziegler, and D. W. Smith	733
Effects of Vaccination on Cytomegalovirus-Associated Intersititial Pneumonia in Strain 2 Guinea Pigs	Frank J. Bia, Helen L. Lucia, Caroline K. Y. Fong, Maureen Tarsio, and G. D. Hsiung	742
Therapeutics		
Treatment of Murine Cryptococcosis with Liposome-Associated Amphotericin B	John R. Graybill, Philip C. Craven, Robert L. Taylor, Dwight M. Williams, and Wayne E. Magee	748
A Plasmid-Mediated Cephalosporinase from *Achromobacter* Species	Roger Levesque, Paul H. Roy, Robert Letarte, and Jean-Claude Pechère	753

Medical Perspective

The Classification and Terminology of Enzymes That Hydrolyze β-Lactam Antibiotics — Richard B. Sykes — 762

Data Forum

Pneumonia Morbidity in U.S. Naval Personnel During 1970–1979 — G. Pazzaglia and M. Pasternack — 766

Provocation of Infection Due to *Pneumocystis carinii* by Cyclosporin A — Walter T. Hughes and Bessie Smith — 767

Protection Against Natural Infection with *Rickettsia tsutsugamushi* in Mice — Lyman Roberts, David M. Robinson, and Dan C. Cavanaugh — 768

Effects of NaCl on the Growth of Some Gram-Negative Bacilli on Solid Media — Fredy P. Roland — 769

Duration of IgM Antibodies to *Toxoplasma gondii* after Acute Acquired Toxoplasmosis — Yehudith Naot, Douglas R. Guptill, and Jack S. Remington — 770

Automated Cytochemical Analysis of Neutrophils from Patients with Chediak-Higashi Syndrome — Myron S. Cohen, James E. Peacock, Dennis W. Ross, and Laurence A. Boxer — 771

Clinical Briefs

Pulmonary Infection with *Mycobacterium chelonei:* Successful Treatment with One Drug Based on Disk Diffusion Susceptibility Data — Richard S. Irwin, Melvin R. Pratter, R. William Corwin, Ross Farrugia, and Carl Teplitz — 772

Pivmecillinam and Relapse of Typhoid Fever — D. A. Jones, H. Kudlac, and I. R. Edwards — 773

Institutional Reports

National Institute of Allergy and Infectious Diseases

Summary of a Workshop on Antiviral Agents for Genital Herpesvirus Infections — Maureen W. Myers, Lowell A. Glasgow, and George J. Galasso — 774

Correspondence

Botulism from Acidic Food: First Cases of Botulinic Paralysis in Puerto Rico — José G. Rigau-Pérez, Charles L. Hatheway, and Virginia Valentín — 783

Erratum (143:476–486, 1981) — 786

Notices — 786

Volume 145 • *June 1982* • *Number 6*

CONTENTS

Medical Perspective

Carriage of Group B Streptococci During Pregnancy: A Puzzler — Bascom F. Anthony — 789

Original Articles

Group B Streptococci

Anorectal and Vaginal Carriage of Group B Streptococci During Pregnancy	Hugh C. Dillon, Jr., Elizabeth Gray, Mary Ann Pass, and Barry M. Gray	794
Maternal Carriage and Neonatal Acquisition of Group B Streptococci	Jacomina A. A. Hoogkamp-Korstanje, L. J. Gerards, and B. P. Cats	800

Otitis Media

Immunologic Aspects of Otitis Media with Effusion: Characteristics of Lymphocyte and Macrophage Reactivity	Tatsuru Yamanaka, Joel B. Bernstein, James Cumella, Carol Parker, and Pearay L. Ogra	804
Presence of Interferon During Bacterial Otitis Media	V. Howie, R. B. Pollard, K. Kleyn, B. Lawrence, T. Peskuric, K. Paucker, and S. Baron	811
Penetration of Amoxicillin, Cefaclor, Erythromycin-Sulfisoxazole, and Trimethoprim-Sulfamethaxazole into the Middle Ear Fluid of Patients with Chronic Serous Otitis Media	P. J. Krause, N. J. Owens, C. H. Nightingale, J. J. Klimek, W. B. Lehmann, and R. Quintiliani	815
Streptococcus pneumoniae and Three Species of Anaerobic Bacteria in Experimental Otitis Media in Guinea Pigs	Magnus Thore, Lars G. Burman, and Stig E. Holm	822

Viral Disease

Herpes Simplex Virus Encephalitis: Laboratory Evaluations and Their Diagnostic Significance	A. J. Nahmias, R. J. Whitley, A. N. Visintine, Y. Takei, C. A. Alford, Jr., and the Collaborative Antiviral Study Group	829
Presence of Interferon in Acute- and Convalescent-Phase Sera of Humans with Influenza or an Influenza-Like Illness of Undetermined Etiology	J. A. Green, R. P. Charette, T.-J. Yeh, and C. B. Smith	837

Pathogenesis of Infection

Natural Mode of Acquisition for de Novo Infection with *Pneumocystis carinii*	Walter T. Hughes	842
Shedding of Infected Ciliated Epithelial Cells in Rhinovirus Colds	Ronald B. Turner, J. Owen Hendley, and Jack M. Gwaltney, Jr.	849
Temporal Patterns of Ultrastructural Alterations in Hepatocytes of Chimpanzees and Experimental Non-A, Non-B Hepatitis	C. R. Gravelle, D. W. Bradley, E. H. Cook, and J. E. Maynard	854

Medical Microbiology

Cultivation of *Bacteroides fragilis* in Tissue Culture	Tohey Matsuyama, Tsukasa Murakami, Setsuko Shiraishi, and Bunji Hagihara	859
Identification of Enterotoxigenic *Escherichia coli* by Colony Hybridization Using Three Enterotoxin Gene Probes	S. L. Moseley, P. Echeverria, J. Seriwatana, C. Tirapat, W. Chaicumpa, T. Sakuldaipeara, and S. Falkow	863

Opsonic Requirements for the Uptake of *Cryptococcus neoformans* by Human Polymorphonuclear Leukocytes and Monocytes	Scott F. Davies, Dennis P. Clifford, John R. Hoidal, and John E. Repine	870
Epidemiology		
The Role of Understaffing and Overcrowding in Recurrent Outbreaks of Staphylococcal Infection in a Neonatal Special-Care Unit	Robert W. Haley and Dennis A. Bregman	875
Sporadic Non-A, Non-B Hepatitis: Frequency and Epidemiology in an Urban U.S. Population	M. J. Alter, R. J. Gerety, L. A. Smallwood, R. E. Sampliner, E. Tabor, F. Deinhardt, G. Frösner, and G. M. Matanoski	886
Epidemiology of Diarrhea Due to Rotavirus on an Indian Reservation: Risk Factors in the Home Environment	N. C. Engleberg, E. N. Holburt, T. J. Barrett, G. W. Gary, Jr., M. H. Trujillo, R. A. Feldman, and J. M. Hughes	894
Chemotherapy		
Ocular Penetration of Subconjunctival Oxacillin, Methicillin, and Cefazolin in Rabbits with Staphylococcal Endophthalmitis	Michael Barza, Anne Kane, and Jules Baum	899
Effect of Acyclovir on Genital Herpes in Guinea Pigs	A. D. Pronovost, H. L. Lucia, P. R. Dann, and G. D. Hsiung	904
Chemotherapeutic Efficacy of *E*-5-(2-Bromovinyl)-2′-Deoxyuridine for Orofacial Infection with Herpes Simplex Virus Type 1 in Mice	N.-H. Park, D. Pavan-Langston, H. M. Boisjoly, and E. De Clercq	909
Data Forum		
Detection of Meningococcal Carriage by Throat Culture	Ronald Turner, J. Owen Hendley, and William Hankins	914
Diagnostic Value of Cryptococcal Antigen in the Cerebrospinal Fluid of Patients with Malignant Disease	Roy L. Hopfer, Elena V. Pèrry, and Victor Fainstein	915
Current Antibiotic Susceptibility of Group A β-Hemolytic Streptococci	Paul Bourbeau and Joseph M. Campos	916
Correlation of Tissue Infection with Bacteriuria	Sean Mulvihill and John Z. Montgomerie	917
Clinical Brief		
Endocarditis and Brain Abscess Due to *Bacteroides oralis*	David N. Fredericka	918
Errata		
145:9–17, 1982		919
145:128, 1982		919
Reviewers for Volume 145		920
Index for Volume 145		923